

Appl. No. : 10/556,129
Filed : November 9, 2005

AMENDMENTS TO THE CLAIMS

Please amend the Claim 1 as follows. Insertions are shown underlined while deletions are ~~struck through~~.

1 (currently amended): An antiglare film having a light-diffusing layer in which fine resin particles are dispersed in a clear resin phase, characterized in that the fine resin particles comprise at least spherical fine resin particles and bowl-shaped fine resin particles each having a concaved section at ~~the-its~~ particle center, and a refractive index n_x of the clear resin phase and a refractive index n_z of each of the bowl-shaped fine resin particles satisfy the relationship expressed by formula (1) below:

$$n_x - n_z \geq 0.03 \quad (1).$$

2 (currently amended): The antiglare film as described in Claim 1, characterized in that ~~the-a~~ refractive index n_y of each of said spherical fine resin particles and the refractive index n_z of each of said bowl-shaped fine resin particles satisfy the relationship expressed by formula (2) below:

$$n_z < n_y \quad (2).$$

3 (currently amended): The antiglare film as described in Claim 1, characterized in that ~~the-an~~ average particle size D_y of said spherical fine resin particles and ~~the-an~~ average particle size D_z of said bowl-shaped fine resin particles are in a range of 0.3 to 7.0 μm , respectively.

4 (currently amended): The antiglare film as described in Claim 1, characterized in that ~~the-an~~ average particle size D_y of said spherical fine resin particles and ~~the-an~~ average particle size D_z of said bowl-shaped fine resin particles satisfy the relationship expressed by formula (3) below:

$$0.7 D_z \leq D_y \leq 1.4 D_z \quad (3).$$

5 (original): The antiglare film as described in Claim 1, characterized in that the light-diffusing layer is provided on at least one surface of a clear base.

6 (currently amended): The antiglare film as described in Claim 1, characterized in that the light-diffusing layer has ~~a~~ convex-concave surface, and convex parts of said convex-concave surface are formed by the spherical fine resin particles alone or by a mixture of the spherical fine resin particles and the bowl-shaped fine resin particles.

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7 (currently amended): The antiglare film as described in Claim 6, characterized in that a thickness of the thinnest part of said light-diffusing layer is greater than a height of each of said bowl-shaped fine resin particles.

8 (currently amended): The antiglare film as described in Claim 6, characterized in that ~~the~~an average particle size of said spherical fine resin particles is in a range of 110 to 300% of the a height of each of said bowl-shaped fine resin particles.

9 (original): The antiglare film as described in Claim 6, characterized in that an average roughness Ra of said convex-concave surface is in a range of 0.1 to 1.0 μm .

10 (currently amended): The antiglare film as described in Claim 3, characterized in that the average particle size D_y of said spherical fine resin particles and the average particle size D_z of said bowl-shaped fine resin particles satisfy the relationship expressed by formula (3) below:

$$0.7 D_z \leq D_y \leq 1.4 D_z \quad (3).$$

11 (currently amended): An antiglare film comprising a light-diffusing layer comprising:
a clear resin phase;

fine resin particles dispersed in the clear resin phase, said fine resin particles comprised of at least (i) spherical fine resin particles and (ii) bowl-shaped fine resin particles each having a concaved central section at, wherein a refractive index n_x of the clear resin phase and a refractive index n_z of each of the bowl-shaped fine resin particles satisfy formula (1):

$$n_x - n_z \geq 0.03 \quad (1).$$

12 (currently amended): The antiglare film as claimed in Claim 11, wherein ~~the~~a refractive index n_y of each of said spherical fine resin particles and the refractive index n_z of each of said bowl-shaped fine resin particles further satisfy formula (2):

$$n_z < n_y \quad (2).$$

13 (previously presented): The antiglare film as claimed in Claim 11, wherein an average particle size D_y of said spherical fine resin particles and an average particle size D_z of said bowl-shaped fine resin particles are in a range of 0.3 to 7.0 μm , respectively.

14 (previously presented): The antiglare film as claimed in Claim 11, wherein an average particle size D_y of said spherical fine resin particles and an average particle size D_z of said bowl-shaped fine resin particles satisfy formula (3):

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$$0.7 D_z \leq D_y \leq 1.4 D_z \quad (3).$$

15 (previously presented): The antiglare film as claimed in Claim 11, wherein the light-diffusing layer has a surface having an average roughness Ra of 0.1 to 1.0 μm .

16 (previously presented): The antiglare film as claimed in Claim 11, wherein a blending ratio of the spherical fine resin particles to the bowl-shaped fine resin particles, as expressed by numbers of particles, is in a range of 50/50 to 1/99.

17 (previously presented): The antiglare film as claimed in Claim 11, wherein a total number of the spherical fine resin particles and the bowl-shaped fine resin particles is in a range of 5,000 particles/ mm^2 to 60,000 particles/ mm^2 .

18 (previously presented): The antiglare film as claimed in Claim 11, further comprising a transparent substrate on which the light-diffusing layer is formed.

19 (previously presented): The antiglare film as claimed in Claim 18, wherein the light-diffusing layer has a thickness of 0.5 μm to 50 μm .